

**CALFED Bay-Delta Program Information Form  
Watershed Program – Full Proposal Cover Sheet**

*Attach to the cover of the full proposal. All applicants must fill out this Information Form for their proposal. Failure to answer these questions and include them in the application will result in the application being considered nonresponsive and not considered for funding.*

1. **Full Proposal Title:** Current Condition Assessment of the Silver Creek Drainage and Panoche Alluvial Fan areas of the Panoche/Silver Creek Watershed.  
**Concept Proposal Title/Number:** Panoche/Silver Creek Watershed Assessment for the Silver Creek Drainage and the alluvial fan to the Mendota Pool.  
**Applicant:** Westside Resources Conservation District  
**Applicant Name:** Attn: Mr. Morris A. Martin, Manager  
**Applicant Mailing Address:** 3763 E. Robinson, Fresno, CA 93726-5917  
**Applicant Telephone:** (559) 227-2489    **Applicant Fax:** (559) 227-0215  
**Applicant Email:** [redmartin@psnw.com](mailto:redmartin@psnw.com)  
**Fiscal Agent Name (if different from above):** Same as applicant  
**Fiscal Agent Mailing Address:** \_\_\_\_\_  
**Fiscal Agent Telephone:** \_\_\_\_\_    **Fiscal Agent Fax:** \_\_\_\_\_  
**Fiscal Agent Email:** \_\_\_\_\_

2. **Type of Project: Indicate the primary topic for which you are applying (check only one)**

<input checked="" type="checkbox"/> Assessment	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Capacity Building	<input type="checkbox"/> Outreach
<input type="checkbox"/> Education	<input type="checkbox"/> Planning
<input type="checkbox"/> Implementation	<input type="checkbox"/> Research

3. **Type of Applicant:**

<input type="checkbox"/> Academic Institution/University	<input checked="" type="checkbox"/> Non-Profit- Special District RCD
<input type="checkbox"/> Federal Agency	<input type="checkbox"/> Private Party
<input type="checkbox"/> Joint Venture	<input type="checkbox"/> State Agency
<input type="checkbox"/> Local Government	<input type="checkbox"/> Tribe or Tribal Government

4. **Location (including County):**

The Panoche/Silver Creek Watershed is located in the Coastal Range of the San Joaquin Valley, 35 miles west of Fresno, CA. The upper third of the watershed is in San Benito County and the lower two-thirds are in Fresno County. The watershed is approximately 300,000 acres and ranges in elevation from 100 to 5,000 feet above sea level.

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Westside Resource Conservation District  
Assessment of the Silver Creek Drainage and the Panoche Alluvial Fan.  
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**What major watershed is the project primarily located in:**

- ☐ Klamath River (Coast and Cascade Ranges)  
☐ Sacramento River (Coast, Cascade and Sierra Ranges)  
☒ San Joaquin River (Coast and Sierra Ranges)- Current hydrology  
☐ Bay-Delta (Coast and Sierra Ranges)  
☐ Southern CA (Coast and Sierra Ranges)  
☒ Tulare Basin (Coast, Sierra and Tehachapi Ranges)- Historically (Regional Board designation)

**5. Amount of funding requested: \$200,000.**

**Cost share/in-kind partners?** ☒ Yes ☐ No

**Identify partners and amount contributed by each:**

The Panoche/Silver Creek CRMP will be providing in kind services in the form of labor for fieldwork and surveys, as well as any additional information necessary to complete the evaluations.

The California Department of Water Resources, the City of Mendota, USDA- Natural Resources Conservation Service, California Department of Transportation, Regional Water Quality Control Board, the Bureau of Land Management, Firebaugh Canal Water District, Broadview Water District, Westlands Water District, and the Bureau of Reclamation will be providing technical assistance (in-kind services) to the consultant hired.

Total Percent Match = 25%

**6. Have you received funding from CALFED before?** ☒ Yes ☐ No

**If yes, identify project title and source of funds:**

In the Fall of 1999, the Panoche/Silver Creek Watershed CRMP, through the Westside Resource Conservation District, received an implementation grant through the Environmental Restoration Program. The contract for this grant went into effect February 01, 2001; contract number 2000- E02: The Panoche/Silver Creek Watershed Management and Action Plan. This grant totals \$848,000. This grant is to be used to implement best management practices in the Big Panoche Valley in the upper Panoche drainage within the watershed. These projects are only in the Panoche drainage because the best management practices identified worked for landowners who were interested in starting restoration practices immediately.

The proposed work in the Silver Creek drainage and the Panoche alluvial fan will compliment and add to the information gathered by the previous CALFED grant. This proposed work will allow for the Panoche/Silver Creek Watershed Management and Action Plan to be more comprehensive and complete.

By signing below, the applicant declares the following:

1. The truthfulness of all representations in their proposal
2. The individual signing this form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or an organization)
3. The person submitting the application has read and understood the conflict of interest and confidentiality discussion in the Watershed Program Proposal Solicitation Package and waves any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent provided in the Program Proposal Solicitation Package.

Morris A. Martin, Manager

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Printed name of applicant

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Signature of applicant

**1. Describe your project, its underlying assumptions, expected outcomes, timetable for completion, and general methodology or process.**

The Panoche/Silver Creek Watershed (PSCW) contributes selenium, boron and other salts to the impairment of the water quality in the San Joaquin River during large flow events. Most of the large flood flows originate upstream of Interstate-5, in the rugged terrain of the upper Panoche/Silver Creek Watershed. The Silver Creek drainage is included in this part of the PSCW. These flood waters drain through highly productive agricultural land, through the City of Mendota and the Mendota Pool, to the San Joaquin River. This project will evaluate the specific impairments resulting from natural conditions and land use practices in the Silver Creek Drainage and the Panoche alluvial fan, and will recommend best management practices, at specific locations in these two areas of the PSCW, required to manage and reduce impairments to water quality and soil resources in the watershed.

Runoff from Panoche and Silver Creeks has historically created flooding and sedimentation problems for the City of Mendota and surrounding agricultural lands. The PSCW is a principal source of selenium, salts, and other trace elements, which continue to contaminate the soils and groundwater in the Panoche alluvial fan and San Joaquin River. The Panoche/Silver Creek Watershed Coordinated Resource Management and Planning (P/SC CRMP) team is working toward a comprehensive, collaborative watershed program that uses a consensus process to encourage beneficial uses and minimizes damage to the watershed, while avoiding indirect negative impacts to other areas. The P/SC CRMP's objectives include decreasing flooding and erosion, increasing channel stability, enhancing riparian areas and wildlife habitat, and preventing the impairment of high quality water.

The general methodology for completion of the proposed work will involve characterization of the soil and water resources in the Silver Creek drainage and in the Panoche alluvial fan. This characterization will include: review and interpretation of historical aerial photographs, development of historical accounts from local landowners and residents, on-the-ground monitoring and field observations of land use and resource conditions, and the incorporation of the information into a geographic information system (GIS). A final report will be issued, and will be integrated into other planning work currently in other parts of the PSCW.

The timetable for this project is as follows:

Start Contract by January 01, 2002  
First Draft report due by November 30, 2002  
Final report due by June 30, 2003

This timetable is tentative and will require adjustment if the contract can not be signed by January 01, 2002. This project overall is an 18 month project, see the Project Budget and Summary Sheet II for the months involved for each task.

**2. Describe your qualifications and readiness to implement the proposed project.**

**A. Describe the level of institutional structure, ability and experience to administer funds and conduct the project. Identify the fiscal agent responsible for handling the funds.**

**B. Describe technical support available (including support need for environmental compliance and permitting) to begin and complete the project in a timely manner.**

**C. List any previous projects of this type you or your partners have implemented, funded either by CALFED or other programs.**

The applicant and fiscal agent, Westside Resources Conservation District, is working in conjunction with Panoche/Silver Creek Watershed Coordinated Resource Management and Planning (P/SC CRMP) team. The Westside Resources Conservation District (WRCD) has been involved in the administration and management of many grants over the years. The WRCD was developed in 1984 to assist in addressing the resource concerns on the west side of the San Joaquin Valley. Over the past 16 years, the district has taken the lead on research and development of programs and projects to address erosion, sediment transport, drainage, water quality and rangeland management. Morris A. Martin, the Fiscal Agent for the WRCD, retired after 32 years with the Soil Conservation Service as the Area Conservationist for the San Joaquin Valley and Eastern California. He has been manager of the WRCD for 9 years and has administered more than 11 state and federal grants totaling \$1 million. He comes to the project with extensive knowledge concerning the historical events in the Panoche/Silver Creek watershed and the San Joaquin Valley.

Panoche/Silver Creek Watershed Coordinated Resource Management and Planning (P/SC CRMP) was developed in 1989, and hired a full time coordinator in 1995. Over the past five years, the P/SC CRMP has obtained many of the goals and objects established in March 1996. Some of those accomplishments include being awarded an EPA/RWCQB 205 (j) grant and completed a Sedimentation Study that focused on the confluence of Panoche and Silver creeks and 30 square miles around and downstream of it; completed four Clinic Programs through the California State University, Fresno School of Agricultural Sciences and Technology. Three of these projects were the development and implementation of a riparian area project along Panoche Creek close to the California Aqueduct. The fourth Clinic Program focused on completing an inventory of the Tamarisk population throughout the watershed; developed an eradication program for tamarisk using the inventory from the Clinic Program; through the Natural Resources Conservation Service State Office, in Davis, developed and completed a complete literature review and evaluation of all reports completed in this watershed up to 1997. This report enabled the CRMP to develop a plan of action using past data collected to move forward on projects and ideas; with financial assistance from the City of Mendota and the Silver Creek Drainage District, hired Summers Engineering to develop a Funding Report, identifying erosion and sediment movement and water quality as the CRMP's primary issues in the watershed, proposed projects to address the issues and a budget required to do so; award of a Clean Water Act 319h grant to implement projects on Panoche Creek between I-5 and Belmont Avenue to address the erosion and sediment transport concerns, improve water quality and increase landowner involvement in the resource management within that area; awarded of a CALFED grant to develop an upper watershed management plan to address the erosion and sedimentation concerns, as well as the water quality concerns. This grant has allowed placing multiple projects along Panoche Creek in the Big Panoche Valley; secured a California Department of Fish and Game 1603 Maintenance Permit along Panoche Creek from the I-5 to Belmont Ave., the 1603 permit was placed in the CRMP's name at the request of the landowners and projects are under way; and secured a Smoke Management Permit from the San Joaquin Valley Unified Air Pollution Control District to burn the salt cedar and arundo removed from the creek channel.

Technical support will be provided by the following agencies that have participated in the P/SC CRMP over the past ten years: The engineering firm, Giersch and Associates, on contract to the City of Mendota, Silver Creek Drainage District, Broadview Water District, Firebaugh Canal Water District, Westlands Water District, California Department of Water Resources, California Department of Transportation, Central Valley Regional Water Quality Control Board, USDA-Natural Resources Conservation Service, United States

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Westside Resource Conservation District

Assessment of the Silver Creek Drainage and the Panoche Alluvial Fan.

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**3. Provide a completed budget cost sheet and describe the basis for determining project costs, including comparisons with other similar projects, salary comparisons, and other listed costs. Include all costs of environmental compliance, such as CEQA and/or NEPA, and permits. Describe how the approach to achieving the stated goals of the project demonstrates an effective cost relative to its anticipated benefits.**

The cost established for this project is based on budgets developed for a Proposition 13 grant application for a current natural resource condition assessment to be completed on adjoining watersheds. This budget is also similar to the budget that was used on the Clean Water Act 205j contract for the assessment that was completed for the 30 square miles assessment that was centered at the confluence of the Panoche and Silver creeks within the watershed. Because assessments have been completed on sub-watersheds within the last four years, the budget for this project is appropriate for the project. The budget does include the cost of collecting data and information that will be necessary to complete the CEQA and/or NEPA and other permits once the projects are ready for implementation. The approach being utilized is completing an assessment and developing the best management practices prior to implementing projects on the ground. This approach is believed to be the most cost effective way of addressing the resource concerns within this watershed. By having this assessment completed prior to implementing projects there is a greater opportunity for success of the projects.

The task list below outlines the basis for our budget. See Attachment A for the complete budget and Project Summary.

**Task 1: Administration**

*Task 1a: Project oversight, planning, coordination or various parties involved, including stakeholders. Includes subcontracting, fiscal/budgetary management, and invoicing.*

*Task 1b: Regular CRMP meetings to involve stakeholders in the study process, to inform the project team of important issues, and to report progress on the project.*

*Task 1c: Public education workshops to promote greater understanding of linkages between land use, ecosystem function, and beneficial uses. Also, workshops will be used to relay findings of the technical project work to the stakeholders.*

**Task 2: Program Startup**

*Task 2a: Review of previous information collected in the study areas.*

*Task 2b: Development of project work plan to specify methods of analysis and data evaluation and schedule.*

*Task 2c: Compilation of new watershed information into GIS.*

*Task 2d: Collaboration with others who have conducted previous work in these areas of the watershed.*

**Task 3: Data Collection and Field Characterization**

*Task 3a: Review of maps, aerial photographs, and historical accounts to develop a preliminary characterization of these areas.*

*Task 3b: Field investigation (on the ground) to inventory sediment and selenium sources, identify prevalence of various processes, and predict potential of sources to become mobilized and transported downstream.*

*Task 3c: Collection and analysis of soil, water, and/or other environmental materials or descriptors as required to characterize the areas and ensure compliance with CEQA.*

**Task 4: Data Evaluation**

*Task 4a: Compile information obtained during Task 3 activities.*

*Task 4b: Evaluate spatial distribution of collected data and field observations, and develop analysis of trends relative to landscape, hydrologic, geomorphic, and land use effects.*

*Task 4c: Develop data summaries and conclusions from data evaluation.*

**Task 5: Assessment Report Development and Completion**

*Task 5a:*

*Presentation of background information, methods of analysis, results, and conclusions.*

*Task 5b: Presentation of characterization of sediment and selenium source areas, as well as floodplain deposition areas (alluvial fan), including effects of landform, hydrology, and land use.*

*Task 5c: Presentation of characterization of geomorphic influences on sediment source, transport, and deposition.*

*Task 5d: Summarizing data, including data management and presentation of maps in GIS.*

**Task 6: Reporting and Presentations**

*Task 6a: Quarterly progress reports: Progress reports on project implementation, including financial status, milestones reached, products completed, and general assessment of overall progress, including problems encountered or anticipated.*

*Task 6b: Development of draft and final report.*

*Task 6c: Delivery of final summary presentation to CALFED.*

**4. Describe the technical feasibility of the proposed project.**

- A. Describe any similarity to previously implemented successful projects in this community or elsewhere.**
- B. If the project proposes a new approach or new method with a high likelihood of adding new knowledge and or techniques, or with the potential to fill identified gaps in existing knowledge, describe how it will do so, and what monitoring components will provide substantiation of results.**
- C. Explain how the finished project will be maintained as necessary, and to what degree it may require continued funding from outside the community.**

The proposed project builds on a similar project completed in 1997. In 1997, the City of Mendota received a 205 (j) grant to perform a Sedimentation Study on the watershed. The environmental engineering firm of McCulley, Frick and Gilman, Inc. (MFG, Inc.) was hired to investigate a 30-square-mile area of the watershed centered at the confluence of Panoche and Silver Creek. The objectives were to: (1) evaluate the rate of soil erosion within the watershed; (2) identify and rank high erosion sources areas; (3) assess the magnitude of sediment delivery into the lower fan area; and (4) develop and evaluate the effectiveness of best management

practices for management of sediment production and reduction of sediment loads. The Silver Creek Drainage was identified, in general terms, as a large contributor to sediment loading from the watershed. The success of this project led to two additional grant projects which are now being implemented.

1999: A Packard Foundation grant allowed the P/SC CRMP to hire MFG, Inc to evaluate the environmental and economic impact of erosion and sediment mobilization and transport, along with benefits from implementing erosion and sediment control management practices. This report will be finalized in August 2001.

2001: The proposed project would provide continuation of the CALFED Environmental Restoration Program grant that has provided funding to assist the landowners along Panoche Creek in the Big Panoche Valley to implement projects that address the severe erosion and sediment transport problem, water quality and wildlife habitat improvements. Areas that are addressed by the proposed project, but not fully addressed by the Environmental Restoration Program grant, include the Silver Creek drainage and Panoche Creek downstream from the confluence of Panoche and Silver Creeks. The proposed project will result in the necessary detail to expand the boundaries of the current project work and develop a more comprehensive watershed management plan for the watershed.

While this is a new approach for the west side of the San Joaquin Valley, similar projects have been implemented in other areas of California. Best management practices will be tailored to suit the unique conditions and needs of the P/SC Watershed. Once implemented, practices will be monitored to determine whether they have been effective in meeting the P/SC CRMP's goals and objectives.

Prior to implementation of best management practices, the P/SC CRMP signs a contract with each landowner that establishes the extent to which the P/SC CRMP intends to participate in that project and documents the landowner's commitment to operate and maintain that project over the long term.

**5. Describe how the monitoring component of the project will help determine the effectiveness of the project implementation and assist the project proponent and CALFED with adaptive management processes.**

**A. Identify performance measures appropriate for the stated goals and objectives of the project.**

**B. Describe how this project will coordinate with and support other local and regional monitoring efforts.**

**C. Provide a description of any citizen monitoring programs that will be part of this project.**

**D. What monitoring protocols will be used, and are they widely accepted as standard protocols?**

**E. Describe how the type and manner of data collection and analysis will be useful for informing local decision making?**

The focus of this project is to assess two separate sub-watersheds within the PSCW. The assessments will determine the current resource conditions of the two designated areas and then develop best management practices (BMPs) for these areas in relation to the other work currently under way. These BMPs will be integrated into the creation of the overall Watershed Management Plan for the PSCW.

Monitoring for assessment of current resource condition will include: measurement of vegetative cover, rangeland utilization, estimation of erosion from streambanks and upland areas, delineation of flood and sediment damage areas, etc. Standard methods for conducting the monitoring will be implemented, including survey transects, photo documentation, and sampling techniques. Citizen monitoring, including areas of

streambank erosion and historic flood and sediment damage, that is part of other ongoing projects will be incorporated, as appropriate, into this project. Evaluation of the collected data will facilitate characterization of the current resource condition that will, in turn, contribute directly to decision making with respect to management of the soil and water resources. A more specific monitoring plan will be included in the Panoche/Silver Creek Watershed Management and Action Plan

**6. If this project is to be develop specific watershed conservation, maintenance or restoration action, describe the scientific basis for this action(s) described in the proposal. Including the following:**

- A. Any assessment of watershed condition(s) that has already been developed by you or others.**
- B. Previous assessment(s) used to establish your project goals and objectives, or to inform the basic assumptions of your proposal.**
- C. A description of the scientific assumptions used to develop the project goals, objectives and proposed actions, and the degree to which those assumptions are widely accepted (both in the science community as a whole, and in the watershed community).**
- D. Discussion of how the proposed actions are (are not) consistent with the scientific assumptions and previous assessments completed in the watershed.**
- E. A description of what baseline knowledge was used to support the management actions described in the proposal, or the likelihood that the management actions will generate more robust baseline knowledge.**

No specific watershed conservation actions will be taken as part of the project. Instead, it will focus on characterization and assessment of the soil and water resources of the two sub-watersheds, the Silver Creek drainage and the Panoche alluvial fan, in the PSCW. However, alternatives will be developed during the planning level, with supporting scientific basis also included, as part of the project.

**7. A. How will the proposal address multiple CALFED objectives (see Section I) in an integrated fashion, with emphasis on water supply reliability, water quality, ecosystem quality, and levee stability objectives CALFED has established for Stage 1 of the program?**

**B. Explain how the proposal will help define and illustrate relationships between watershed processes (including human elements), watershed management, and the primary goals and objectives of the CALFED (see Section I).**

❖ CALFED's priorities for the first funding cycle include development of watershed assessments and plans.

The focus of this proposal is to assess the existing conditions of the two remaining uncharacterized and unassessed sub-watersheds within the Panoche/Silver Creek watershed. These assessments are imperative so a practical, economical management plan can be established to address the resource concerns. These proposed assessments and plans will be integrated with areas previously assessed and will complete the management plan for the entire watershed. MFG, Inc. will have an important role in this project, as they have in the other assessments, and will apply their experience on other activities and conditions in the watershed for the benefit of the project.

❖ CALFED's priorities for the first funding cycle include building local community capacity to assess and effectively manage watersheds that affect the Bay-Delta system.

❖ The Panoche/Silver Creek watershed has an active CRMP program that has continually worked to include all the landowners and other interested parties into the process of planning and implementation. This project will allow the CRMP to engage more of the landowners and complete a collaborative, comprehensive watershed management plan for the entire PSCW.

**C. Identify a lead agency for environmental compliance, such as CEQA or NEPA. Describe the program's strategy and timetable on environmental compliance.**

The applicant and fiscal agent, Westside Resources Conservation District, is working in conjunction with Panoche/Silver Creek Watershed Coordinated Resource Management and Planning (P/SCW CRMP). Although this project will not require environmental documentation to be completed, the assessments will gather data that can and will be used in the development of environmental documents and permits for recommended projects.

The CEQA and/or NEPA lead agency for implementation of the Panoche/Silver Creek Watershed Assessment and Action Plan will vary according to land ownership and permits needed for individual projects. For example, a significant portion of the upper watershed is owned by the U.S. Bureau of Land Management, so they would be the NEPA lead agency for projects implemented on their land. Within the city of Mendota, however, the NEPA lead agency would be another federal member of the P/SC CRMP's TAC, such as the U.S. Bureau of Reclamation. Likewise, the CEQA lead agency would be a State agency member of the TAC, such as the Central Valley Regional Water Quality Control Board or the California Department of Fish and Game.

**8. Describe any other important aspects of your program that you could not address in the above items, and that you feel are critical to fully describing your project.**

In order to properly manage any watershed, it is imperative to fully understand the natural resource dynamics of that watershed. The PSCW covers approximately 300,000 acres and has some of the most dramatic resource concerns in the state. Currently, the Regional Water Quality Control Board has established that the PSCW, by 2004, have a Total Maximum Daily Loading (TMDL) standard for both Selenium and Sediment. In addition, the Bureau of Reclamation and the Land Retirement Team have expressed a desire to establish a flood/wildlife corridor located in the Panoche alluvial fan. Having a clearer understanding of the geology, geomorphology, soils, hydrology, etc. is imperative to the establishment of proper TMDL standards and a properly designed and located corridor will make these projects successful.

Assessments have been completed in other parts of this watershed but, because of the size of this watershed (approximately 300,000 acres), they were done on a sub-watershed basis. The Silver Creek Drainage is a primary source of selenium and other water quality problems. The Panoche alluvial fan is the recipient of the sediment from above and all the contaminants that come with that sediment. This proposed project would complete the entire watershed assessment, with the appropriate focus on these two critical areas, and enable the CRMP and its participants to develop and implement a collaborative, comprehensive watershed management plan that will strive to reduce erosion and increase erosion in the upper watershed, and alleviate flooding and sedimentation loading to the alluvial fans area of the PSCW.

Through the past five and a half years, the P/SC CRMP has successfully worked to develop a cooperative and complementary working relationship of many public and private entities. The public agencies and private

organizations listed below have agreed to work together and have over the past five years to complete the goals and objectives of the P/SC CRMP. As a result of the By-Laws established by the P/SC CRMP these organizations have committed their willingness to work together with the P/SC CRMP. There are not many letters of support included with this full proposal due to the fact that many of them were involved in the development of this application and have previously signed the P/SC CRMP By-Laws. See the By-Laws, Attachment B, for a description of the agreement.

Ranchers in the upper Panoche/Silver Creek Watershed  
Farmers in the lower Panoche/Silver Creek Watershed  
Residents and officials from the City of Mendota, California  
Fresno County Board of Supervisors  
Fresno County Public Works Department  
San Benito County Board of Supervisors  
San Benito County Public Works Department  
Silver Creek Drainage District  
Broadview Water District  
Firebaugh Canal Water District  
Westlands Water District  
California State University, Fresno  
California Department of Water Resources  
California Department of Transportation  
State Water Resources Control Board  
Regional Water Quality Control Board  
State Water Contractors  
USDA-Natural Resources Conservation Service  
United States Bureau of Land Management  
United States Bureau of Reclamation  
United States Environmental Protection Agency  
McCulley, Frick & Gilman, Inc.

**Attachment A**  
**CONTRACT AND SUB-CONTRACT INDIVIDUAL BUDGETS- TABLE 1**

**Westside Resource Conservation District - Total Project Budget**

Task Description	Labor Rate	Hours	Total Labor	Supplies	Travel	Materials	Sub-contract**	Match	CALFED	Total
Task 1: Administration	25	560	\$ 14,000	\$ -	\$ -	\$ -	\$ 16,000	\$ -	\$ 30,000	\$ 30,000
Task 2: Program Startup	-	-	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 14,000	\$ 25,000	\$ 39,000
Task 3: Data Collection and Field Characterization	-	-	\$ -	\$ -	\$ -	\$ -	\$ 90,000	\$ 25,000	\$ 90,000	\$ 115,000
Task 4: Data Evaluation	-	-	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 10,000	\$ 25,000	\$ 35,000
Task 5: Assessment Report Development and Completion	-	-	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000	\$ 25,000
Task 6: Reporting and Presentations	-	-	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ 1,000	\$ 5,000	\$ 6,000
<b>Totals:</b>			\$ 14,000	\$ -	\$ -	\$ -	\$ 186,000	\$ 50,000	\$ 200,000	\$ 250,000

\*\*See itemized budget for each subcontract.

**Subcontracts with Westside RCD**

**Nettie R. Drake- P/SC CRMP Coordinator**

Task Description	Labor Rate	Hours	Total Labor	Supplies	Travel	Materials	Sub-contract**	Match	CALFED	Total
Task 1: Administration	45	140	\$ 6,300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,300	\$ 6,300
Task 2: Program Startup	45	70	\$ 3,150	\$ -	\$ 200	\$ -	\$ -	\$ -	\$ 3,350	\$ 3,350
Task 3: Data Collection and Field Characterization	45	120	\$ 5,400	\$ -	\$ 320	\$ -	\$ -	\$ -	\$ 5,720	\$ 5,720
Task 4: Data Evaluation	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 5: Assessment Report Development and Completion	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 6: Reporting and Presentations	45	60	\$ 2,700	\$ -	\$ 180	\$ -	\$ -	\$ -	\$ 2,880	\$ 2,880
<b>Totals:</b>			\$ 17,550	\$ -	\$ 700	\$ -	\$ -	\$ -	\$ 18,250	\$ 18,250

**MFG, Inc.**

Task Description	Labor Rate	Hours	Total Labor	Supplies	Travel	Materials	Sub-contract	Match	CALFED	Total
Task 1: Administration	80	95	\$ 7,600	\$ -	\$ 500	\$ -	\$ -	\$ -	\$ 8,100	\$ 8,100
Task 2: Program Startup	80	170	\$ 13,600	\$ -	\$ 650	\$ -	\$ -	\$ -	\$ 14,250	\$ 14,250
Task 3: Data Collection and Field Characterization	80	540	\$ 43,200	\$ 180	\$ 2,500	\$ 200	\$ 10,000	\$ -	\$ 56,080	\$ 56,080
Task 4: Data Evaluation	80	190	\$ 15,200	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ 15,300	\$ 15,300
Task 5: Assessment Report Development and Completion	80	190	\$ 15,200	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ 15,300	\$ 15,300
Task 6: Reporting and Presentations	80	24	\$ 1,920	\$ -	\$ 200	\$ -	\$ -	\$ -	\$ 2,120	\$ 2,120

<b>Totals:</b>	\$ 96,720	\$ 380	\$ 3,850	\$ 200	\$ 10,000	\$ -	\$ 111,150	\$ 111,150
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**William Lettis & Associates, Inc.**

Task Description	Labor									
	Rate	Hours	Total Labor	Supplies	Travel	Materials	Sub-contract	Match	CALFED	Total
Task 1: Administration	80	20	\$ 1,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,600	\$ 1,600
Task 2: Program Startup	80	90	\$ 7,200	\$ -	\$ 200	\$ -	\$ -	\$ -	\$ 7,400	\$ 7,400
Task 3: Data Collection and Field Characterization	80	320	\$ 25,600	\$ 300	\$ 2,000	\$ 300	\$ -	\$ -	\$ 28,200	\$ 28,200
Task 4: Data Evaluation	80	120	\$ 9,600	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ 9,700	\$ 9,700
Task 5: Assessment Report Development and Completion	80	120	\$ 9,600	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ 9,700	\$ 9,700
Task 6: Reporting and Presentations	-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Totals:</b>	\$ 53,600	\$ 500	\$ 2,200	\$ 300	\$ -	\$ -	\$ -	\$ -	\$ 56,600	\$ 56,600

## CALFED WATERSHED PROGRAM BUDGET AND PROJECT SUMMARY II

Task Description		Completion date	Match funds	CALFED funds	Total
Task 1:	Administration	Continuous	\$0	\$30,000	\$30,000
Task 1a:	<i>Project oversight, planning, coordination or various parties involved, including stakeholders. Includes subcontracting, fiscal/budgetary management, and invoicing.</i>				
Task 1b:	<i>Regular CRMP meetings to involve stakeholders in the study process, to inform the project team of important issues, and to report progress on the</i>				
Task 1c:	<i>Public education workshops to promote greater understanding of linkages between land use, ecosystem function, and beneficial uses. Also, workshops will be used to relay findings of the technical project work to the stakeholders.</i>				
<b>Task Product(s):</b> Invoices, CRMP meeting minutes and handouts, workshop materials.					
<b>Success Criteria:</b> Attendance and participation of stakeholders in relevant aspects of the project, effective interaction among project team members to complete project on time and within budget.					
Task 2:	Program Startup	May-02	\$14,000	\$25,000	\$39,000
Task 2a:	<i>Review of previous information collected in the study areas.</i>				
Task 2b:	<i>Development of project work plan to specify methods of analysis and data evaluation and schedule.</i>				
Task 2c:	<i>Compilation of new watershed information into GIS.</i>				
Task 2d:	<i>Collaboration with others who have conducted previous work in these areas of the watershed.</i>				
<b>Task Product(s):</b> Project work plan.					
<b>Success Criteria:</b> Development of information and materials for use in executing subsequent tasks.					

Task 3:	Data Collection and Field Characterization	September-02	\$25,000	\$90,000	\$115,000
	Task 3a: <i>Review of maps, aerial photographs, and historical accounts to develop a preliminary characterization of these areas.</i>				
	Task 3b: <i>Field investigation (on the ground) to inventory sediment and selenium sources, identify prevalence of various processes, and predict potential of sources to become mobilized and transported downstream.</i>				
	Task 3c: <i>Soil and/or water quality sampling to support characterization of these areas.</i>				
	<p><b>Task Product(s):</b> Field activity report.</p> <p><b>Success Criteria:</b> Completion of office and field characterization and data collection activities on schedule and within budget, filling of identified data gaps with collected data and information.</p>				
Task 4:	Data Evaluation	February-03	\$10,000	\$25,000	\$35,000
	Task 4a: <i>Compile information obtained during Task 3</i>				
	Task 4b: <i>Evaluate spatial distribution of collected data and field observations, and develop analysis of trends relative to landscape, hydrologic, geomorphic, and land use effects.</i>				
	Task 4c: <i>Develop data summaries and conclusions from data evaluation.</i>				
	<p><b>Task Product(s):</b> Technical memorandum that provides data summaries and general conclusions.</p> <p>In addition to filling identified data gaps, collected data and information can be readily incorporated into a communicable format understandable by the stakeholders.</p>				
Task 5:	Assessment Report Development and Completion	June-03	\$0	\$25,000	\$25,000
	Task 5a: <i>Presentation of background information, methods of analysis, results, and conclusions.</i>				
	Task 5b: <i>Presentation of characterization of sediment and selenium source areas, as well as floodplain deposition areas (alluvial fan), including effects of landform, hydrology, and land use.</i>				

*Task 5c: Presentation of characterization of geomorphic influences on sediment source, transport, and deposition.*

*Task 5d: Summarizing data, including data management and presentation of maps in GIS.*

**Task Product(s):** Draft and final report.

**Success Criteria:** Report provides an effective and comprehensive planning resource for land managers, landowners, and other stakeholders.

		Continuous			
Task 6:	Reporting and Presentations	June-03	\$1,000	\$5,000	\$6,000
Task 6a:	<i>Quarterly progress reports: Progress reports on project implementation, including financial status, milestones reached, products completed, and general assessment of overall progress, including problems encountered or anticipated.</i>				
Task 6b:	<i>Development of draft and final report.</i>				
Task 6c:	<i>Delivery of final summary presentation to CALFED.</i>				

**Task Product(s):** Quarterly reports, draft and final report submittal to CALFED, presentation to CALFED.

**Success Criteria:** Effective communication of progress and final conclusions to CALFED.